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Thermal-steam cyclic processing technology of development objects in Karazhanbas Kazakhstan field

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Abstract

Background: This paper investigates the Karazhanbas oil field, according to the development condition and with application of impact thermal methods on layer. For this purpose, simultaneous application of thermal-steam cyclic wells processing are utilized. Methods: At the first step, geological structure data are provided on new wells. Then various indexes such as in homogeneity, filtration and capacitor properties of layer-collectors, physical and chemical properties analysis and petroleum composition are evaluated. Results: The statistical analysis on wells processing is conducted and the main factors which has the most effects are specified. On the basis of the analysis, the optimum mode of carrying out Thermal-Steam Well Processing (TSWP) is determined. Results demonstrate that productions with water content are optimal. Finally technological and economic effects of carrying out processing are proposed. Conclusion: The payback period of TSWP costs is about 1 year, in other words, the extra initial costs are covered over a year.

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Keywords

Karazhanbas field, Thermal methods of layer impact, Thermal-Steam Well Processing (TSWP)